

Customer No.: 31561
 Docket No.: 12278-US-PA
 Application No.: 10/711,002

To the Claims:

Please amend the claims according to the following listing of claims and substitute it for all prior versions and listings of claims in the application.

Claim 1 (currently amended) A white light light emitting diode (LED), comprising:
 an exciting light source, for emitting a light, ~~wherein having a wavelength of the light is~~
 in a range of about 250nm to about 490nm; and

~~a-fluorescent powders, disposed around the exciting light source, for absorbing the light~~
~~emitting from the exciting light source, wherein a material of the fluorescent powder is~~
comprising yellow-light fluorescent materials and at least two different fluorescent materials
 selected from a group consisting of $(\text{Tb}_{1-x-y}\text{Ce}_x\text{Re}_y)\text{Al}_5\text{O}_{12}$, $(\text{Me}_{1-x-y}\text{Eu}_x\text{Re}_y)_3\text{SiO}_5$, $\text{YBO}_3\text{:Ce}^{3+}$,
 $\text{YBO}_3\text{:Tb}^{3+}$, $\text{SrGa}_2\text{O}_4\text{:Eu}^{2+}$, $\text{SrAl}_2\text{O}_4\text{:Eu}^{2+}$, $(\text{Ba},\text{Sr})\text{MgAl}_{10}\text{O}_{17}\text{:Eu}^{2+}$, $(\text{Ba},\text{Sr})\text{MgAl}_{10}\text{O}_{17}\text{:Mn}^{2+}$,
 $\text{Y}_2\text{O}_3\text{:Eu}^{3+}$, $\text{Y}_2\text{O}_3\text{:Bi}^{3+}$, $(\text{Y},\text{Gd})_2\text{O}_3\text{:Eu}^{3+}$, $(\text{Y},\text{Gd})_2\text{O}_3\text{:Bi}^{3+}$, $\text{Y}_2\text{O}_2\text{S}\text{:Eu}^{3+}$, $\text{Y}_2\text{O}_2\text{S}\text{:Bi}^{3+}$, $(\text{Me}_{1-x}\text{Eu}_x)\text{ReS}$, $6\text{MgO}\cdot\text{As}_2\text{O}_3\text{:Mn}$, $\text{Mg}_2\text{SiO}_4\text{:Mn}$, $\text{BaMgAl}_{10}\text{O}_{17}\text{:Eu}^{2+}$ and
 $(\text{Ca},\text{Sr},\text{Ba})_3(\text{PO}_4)_3\text{Cl}\text{:Eu}^{2+}$, Gd^{2+} red-light fluorescent materials, green-light fluorescent materials,
and blue-light fluorescent materials.

Claim 2 (currently amended) The white light LED of claim 1, wherein when the
 wavelength of the light is in a range of about 440nm to about 490nm, the material of the
 fluorescent powder is includes yellow-light fluorescent materials selected from a group
 consisting of $(\text{Tb}_{1-x-y}\text{Ce}_x\text{Re}_y)\text{Al}_5\text{O}_{12}$, $(\text{Me}_{1-x-y}\text{Eu}_x\text{Re}_y)_3\text{SiO}_5$, $\text{Y}_2\text{O}_3\text{:Eu}^{3+}$, and red light fluorescent

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materials selected from a group consisting of $Y_2O_3:Bi^{3+}$, $(Y,Gd)_2O_3:Eu^{3+}$, $(Y,Gd)_2O_3:Bi^{3+}$, $Y_2O_2S:Eu^{3+}$, $Y_2O_2S:Bi^{3+}$, $(Me_{1-x}Eu_x)ReS$, $6MgO,As_2O_5:Mn$ [[and]], $Mg_3SiO_4:Mn$.

Claim 3 (currently amended) The white light LED of claim 1, wherein when the wavelength of the light is in a range of about 250nm to about 440nm, the material of the fluorescent powder [[is]] includes yellow-light fluorescent materials selected from a group consisting of $(Tb_{3-x-y}Ce_xRe_y)Al_5O_{12}$, $(Me_{1-x-y}Eu_xRe_y)_3SiO_5$, $YBO_3:Ce^{3+}$, green-light fluorescent materials selected from a group consisting of $YBO_3:TB^{3+}$, $SrGa_2O_4:Eu^{2+}$, $SrAl_2O_4:Eu^{2+}$, $(Ba,Sr)MgAl_{10}O_{17}:Eu^{2+}$, $(Ba,Sr)MgAl_{10}O_{17}:Mn^{2+}$, red-light fluorescent materials selected from a group consisting of $Y_2O_3:Eu^{3+}$, $Y_2O_3:Bi^{3+}$, $(Y,Gd)_2O_3:Eu^{3+}$, $(Y,Gd)_2O_3:Bi^{3+}$, $Y_2O_2S:Eu^{3+}$, $Y_2O_2S:Bi^{3+}$, $(Me_{1-x}Eu_x)ReS$, $6MgO,As_2O_5:Mn$, $Mg_3SiO_4:Mn$, and blue-light fluorescent materials selected from a group consisting of $BaMgAl_{10}O_{17}:Eu^{2+}$ [[and]], $(Ca,Sr,Ba)_5(PO_4)_3Cl:Eu^{2+}$, Gd^{2+} .

Claim 4 (original) The white light LED of claim 1, wherein $0 < x \leq 0.8$ and $0 \leq y \leq 2.0$.

Claim 5 (original) The white light LED of claim 1, wherein Me comprises calcium, strontium, or barium.

Claim 6 (original) The white light LED of claim 1, wherein Re comprises praseodymium (Pr), rubidium, samarium (Sm), dysprosium (Dy), holmium (Ho), yttrium, erbium (Er), europium (Eu), thulium (Tm), ytterbium (Yb), chromium, strontium, lutetium (Lu), gadolinium (Gd), aluminum, or zinc.

Claim 7 (original) The white light LED of claim 1, wherein the exciting light source comprises LED chip or laser diode chip.

Claim 8 (currently amended) A white light light emitting diode (LED), comprising:

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a susceptor, having a pit in a surface of the susceptor;

an exciting light source, disposed in the pit of the susceptor and electrically connected to the susceptor, wherein a light having a wavelength in a range of about 250nm to about 490nm is emitted from the exciting light source;

a sealing resin, disposed over the susceptor, wherein the exciting light source is covered by the sealing resin to mount the exciting light source over the susceptor; and

[[a]] fluorescent powders, disposed around the exciting light source, for absorbing the light emitting from the exciting light source, wherein a material of the fluorescent powder is comprising yellow-light fluorescent materials and at least two different fluorescent materials selected from a group consisting of $(\text{Tb}_{1-x-y}\text{Ce}_x\text{Re}_y)\text{Al}_5\text{O}_{12}$, $(\text{Me}_{1-x-y}\text{Eu}_x\text{Re}_y)_3\text{SiO}_8$, $\text{YBO}_3\text{:Ce}^{3+}$, $\text{YBO}_3\text{:Tb}^{3+}$, $\text{SrGa}_2\text{O}_4\text{:Eu}^{2+}$, $\text{SrAl}_2\text{O}_4\text{:Eu}^{2+}$, $(\text{Ba,Sr})\text{MgAl}_{10}\text{O}_{17}\text{:Eu}^{2+}$, $(\text{Ba,Sr})\text{MgAl}_{10}\text{O}_{17}\text{:Mn}^{2+}$, $\text{Y}_2\text{O}_3\text{:Eu}^{3+}$, $\text{Y}_2\text{O}_3\text{:Bi}^{3+}$, $(\text{Y,Gd})_2\text{O}_3\text{:Eu}^{3+}$, $(\text{Y,Gd})_2\text{O}_3\text{:Bi}^{3+}$, $\text{Y}_2\text{O}_2\text{S:Eu}^{3+}$, $\text{Y}_2\text{O}_2\text{S:Bi}^{3+}$, $(\text{Me}_{1-x}\text{Eu}_x)\text{ReS}$, $6\text{MgO} \cdot \text{As}_2\text{O}_5 \cdot \text{Mn}$, $\text{Mg}_2\text{SiO}_4 \cdot \text{Mn}$, $\text{BaMgAl}_{10}\text{O}_{17}\text{:Eu}^{2+}$ [[and]] $(\text{Ca,Sr,Ba})_3(\text{PO}_4)_3\text{Cl:Eu}^{2+}$, Gd^{2+} red-light fluorescent materials, green-light fluorescent materials, and blue-light fluorescent materials.

Claim 9 (original) The white light LED of claim 8, further comprising:

a plurality of welding wire, electrically connected between the exciting light source and the susceptor.

Claim 10 (original) The white light LED of claim 8, wherein the susceptor comprises a packaging leadframe or a circuit board.

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Claim 11 (original) The white light LED of claim 8, wherein the exciting light source comprises a LED chip or a laser diode chip.

Claim 12 (currently amended) The white light LED of claim 8, wherein when the wavelength of the light is in a range of about 440nm to about 490nm, the material of the fluorescent powder [[is]] includes yellow-light fluorescent materials selected from a group consisting of $(\text{Tb}_{3-x-y}\text{Ce}_x\text{Re}_y)\text{Al}_5\text{O}_{12}$, $(\text{Me}_{1-x-y}\text{Eu}_x\text{Re}_y)_3\text{SiO}_5$, $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$, and red light fluorescent materials selected from a group consisting of $\text{Y}_2\text{O}_3:\text{Bi}^{3+}$, $(\text{Y,Gd})_2\text{O}_3:\text{Eu}^{3+}$, $(\text{Y,Gd})_2\text{O}_3:\text{Bi}^{3+}$, $\text{Y}_2\text{O}_2\text{S}:\text{Eu}^{3+}$, $\text{Y}_2\text{O}_2\text{S}:\text{Bi}^{3+}$, $(\text{Me}_{1-x}\text{Eu}_x)\text{ReS}$, $6\text{MgO,As}_2\text{O}_5:\text{Mn}$ [[and]], $\text{Mg}_3\text{SiO}_4:\text{Mn}$.

Claim 13 (currently amended) The white light LED of claim 8, wherein when the wavelength of the light is in a range of about 250nm to about 440nm, the material of the fluorescent powder ~~is~~ includes yellow-light fluorescent materials selected from a group consisting of $(\text{Tb}_{3-x-y}\text{Ce}_x\text{Re}_y)\text{Al}_5\text{O}_{12}$, $(\text{Me}_{1-x-y}\text{Eu}_x\text{Re}_y)_3\text{SiO}_5$, $\text{YBO}_3:\text{Ce}^{3+}$, green-light fluorescent materials selected from a group consisting of $\text{YBO}_3:\text{TB}^{3+}$, $\text{SrGa}_2\text{O}_4:\text{Eu}^{2+}$, $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}$, $(\text{Ba,Sr})\text{MgAl}_{10}\text{O}_{17}:\text{Eu}^{2+}$, $(\text{Ba,Sr})\text{MgAl}_{10}\text{O}_{17}:\text{Mn}^{2+}$, red-light fluorescent materials selected from a group consisting of $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$, $\text{Y}_2\text{O}_3:\text{Bi}^{3+}$, $(\text{Y,Gd})_2\text{O}_3:\text{Eu}^{3+}$, $(\text{Y,Gd})_2\text{O}_3:\text{Bi}^{3+}$, $\text{Y}_2\text{O}_2\text{S}:\text{Eu}^{3+}$, $\text{Y}_2\text{O}_2\text{S}:\text{Bi}^{3+}$, $(\text{Me}_{1-x}\text{Eu}_x)\text{ReS}$, $6\text{MgO,As}_2\text{O}_5:\text{Mn}$, $\text{Mg}_3\text{SiO}_4:\text{Mn}$, and blue-light fluorescent materials selected from a group consisting of $\text{BaMgAl}_{10}\text{O}_{17}:\text{Eu}^{2+}$ [[and]], $(\text{Ca,Sr,Ba})_5(\text{PO}_4)_3\text{Cl}:\text{Eu}^{2+}, \text{Gd}^{2+}$.

Claim 14 (original) The white light LED of claim 8, wherein $0 < x \leq 0.8$, and $0 \leq y \leq 2.0$.

Claim 15 (original) The white light LED of claim 8, wherein Me comprises calcium, strontium, or barium.

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Claim 16 (original) The white light LED of claim 8, wherein Re comprises praseodymium (Pr), rubidium, samarium (Sm), dysprosium (Dy), holmium (Ho), yttrium, erbium (Er), europium (Eu), thulium (Tm), ytterbium (Yb), chromium, strontium, lutetium (Lu), gadolinium (Gd), aluminum, or zinc.

Claim 17 (currently amended) A white light emitting diode (LED), at least comprising:

a LED chip, for emitting a light having a wavelength in a range of about 250nm to about 490nm, wherein the LED chip comprising:

a substrate;

an nucleation layer, disposed over the substrate;

a conductive buffer layer, disposed over the nucleation layer;

a first confinement layer, disposed over the conductive buffer layer, wherein a type of a (conductive) doping material of the first confinement layer and a type of a (conductive) doping material of the conductive buffer layer are the same;

a light emitting layer, disposed over the first confinement layer, wherein the light emitting layer comprises doped III-V compound semiconductor material;

a second confinement layer, disposed over the light emitting layer, wherein a type of the (conductive) doping material of the second confinement layer and the type of the (conductive) doping material of the first confinement layer are different;

a contact layer, disposed over the second confinement layer, wherein the contact layer comprises a superlattice structure material layer;

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an anode electrode, disposed over the contact layer;

a cathode electrode, contacted to the conductive buffer layer, and isolated from the first and the second confinement layer, the light emitting layer, the contact layer and the anode electrode; and

[[a]] fluorescent powders, disposed around the exciting light source, ~~for absorbing the light emitting from the exciting light source, wherein a material of the fluorescent powder is comprising yellow-light fluorescent materials and at least two different fluorescent materials~~ selected from a group consisting of $(\text{Tb}_{1-x-y}\text{Ce}_x\text{Re}_y)\text{Al}_5\text{O}_{12}$, $(\text{Me}_{1-x-y}\text{Eu}_x\text{Re}_y)_3\text{SiO}_5$, $\text{YBO}_3:\text{Ce}^{3+}$, $\text{YBO}_3:\text{Tb}^{3+}$, $\text{SrGa}_2\text{O}_4:\text{Eu}^{2+}$, $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}$, $(\text{Ba},\text{Sr})\text{MgAl}_{10}\text{O}_{17}:\text{Eu}^{2+}$, $(\text{Ba},\text{Sr})\text{MgAl}_{10}\text{O}_{17}:\text{Mn}^{2+}$, $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$, $\text{Y}_2\text{O}_3:\text{Bi}^{3+}$, $(\text{Y},\text{Gd})_2\text{O}_3:\text{Eu}^{3+}$, $(\text{Y},\text{Gd})_2\text{O}_3:\text{Bi}^{3+}$, $\text{Y}_2\text{O}_2\text{S}:\text{Eu}^{3+}$, $\text{Y}_2\text{O}_2\text{S}:\text{Bi}^{3+}$, $(\text{Me}_{1-x}\text{Eu}_x)\text{ReS}$, $6\text{MgO}:\text{As}_2\text{O}_5:\text{Mn}$, $\text{Mg}_3\text{SiO}_4:\text{Mn}$, $\text{BaMgAl}_{10}\text{O}_{17}:\text{Eu}^{2+}$ and $(\text{Ca},\text{Sr},\text{Ba})_3(\text{PO}_4)_3\text{Cl}:\text{Eu}^{2+},\text{Gd}^{2+}$ red-light fluorescent materials, green-light fluorescent materials, and blue-light fluorescent materials.

Claim 18 (currently amended) The white light LED of claim 17, wherein when a wavelength of the light is in a range of about 440nm to about 490nm, the material of the fluorescent powder ~~[[is]] includes yellow-light fluorescent materials~~ selected from a group consisting of $(\text{Tb}_{1-x-y}\text{Ce}_x\text{Re}_y)\text{Al}_5\text{O}_{12}$, $(\text{Me}_{1-x-y}\text{Eu}_x\text{Re}_y)_3\text{SiO}_5$, $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$, and red light fluorescent materials selected from a group consisting of $\text{Y}_2\text{O}_3:\text{Bi}^{3+}$, $(\text{Y},\text{Gd})_2\text{O}_3:\text{Eu}^{3+}$, $(\text{Y},\text{Gd})_2\text{O}_3:\text{Bi}^{3+}$, $\text{Y}_2\text{O}_2\text{S}:\text{Eu}^{3+}$, $\text{Y}_2\text{O}_2\text{S}:\text{Bi}^{3+}$, $(\text{Me}_{1-x}\text{Eu}_x)\text{ReS}$, $6\text{MgO}:\text{As}_2\text{O}_5:\text{Mn}$ ~~[[and]]~~, $\text{Mg}_3\text{SiO}_4:\text{Mn}$.

Claim 19 (currently amended) The white light LED of claim 17, wherein when the wavelength of the light is in a range of about 250nm to about 440nm, the material of the

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fluorescent powder ~~is~~ includes yellow-light fluorescent materials selected from a group consisting of $(\text{Tb}_{1-x-y}\text{Ce}_x\text{Re}_y)\text{Al}_5\text{O}_{12}$, $(\text{Me}_{1-x-y}\text{Eu}_x\text{Re}_y)_3\text{SiO}_5$, $\text{YBO}_3:\text{Ce}^{3+}$, green-light fluorescent materials selected from a group consisting of $\text{YBO}_3:\text{Tb}^{3+}$, $\text{SrGa}_2\text{O}_4:\text{Eu}^{2+}$, $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}$, $(\text{Ba},\text{Sr})\text{MgAl}_{10}\text{O}_{17}:\text{Eu}^{2+}$, $(\text{Ba},\text{Sr})\text{MgAl}_{10}\text{O}_{17}:\text{Mn}^{2+}$, red-light fluorescent materials selected from a group consisting of $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$, $\text{Y}_2\text{O}_3:\text{Bi}^{3+}$, $(\text{Y},\text{Gd})_2\text{O}_3:\text{Eu}^{3+}$, $(\text{Y},\text{Gd})_2\text{O}_3:\text{Bi}^{3+}$, $\text{Y}_2\text{O}_2\text{S}:\text{Eu}^{3+}$, $\text{Y}_2\text{O}_2\text{S}:\text{Bi}^{3+}$, $(\text{Me}_{1-x}\text{Eu}_x)\text{ReS}$, $6\text{MgO}.\text{As}_2\text{O}_5:\text{Mn}$, $\text{Mg}_3\text{SiO}_4:\text{Mn}$, and blue-light fluorescent materials selected from a group consisting of $\text{BaMgAl}_{10}\text{O}_{17}:\text{Eu}^{2+}$ [[and]], $(\text{Ca},\text{Sr},\text{Ba})_5(\text{PO}_4)_3\text{Cl}:\text{Eu}^{2+},\text{Gd}^{2+}$.

Claim 20 (original) The white light LED of claim 17, wherein $0 < x \leq 0.8$ and $0 \leq y \leq 2.0$.

Claim 21 (original) The white light LED of claim 17, wherein Me comprises calcium, strontium or barium.

Claim 22 (original) The white light LED of claim 17, wherein Re comprises praseodymium (Pr), rubidium, samarium (Sm), dysprosium (Dy), holmium (Ho), yttrium, erbium (Er), europium (Eu), thulium (Tm), ytterbium (Yb), chromium, strontium, lutetium (Lu), gadolinium (Gd), aluminum or zinc.

Claim 23 (original) The white light LED of claim 17, wherein a super high conductivity material of the contact layer comprises strained layer superlattice (SLS) material.

Claim 24 (original) The white light LED of claim 23, wherein a conductive type of the contact layer and a conductive type of the second confinement layer are different.

Claim 25 (original) The white light LED of claim 23, wherein a conductive type of the contact layer and a conductive type of the anode electrode are different.

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Claim 26 (original) The white light LED of claim 17, wherein the anode electrode comprises a conventional metal used in a semiconductor process and a multi-layer structure composed of a mixture of the conventional metal, wherein a total thickness of the anode electrode is equal to or less than $0.1\mu\text{m}$.

Claim 27 (original) The white light LED of claim 26, wherein the anode electrode comprises a transparent conductive oxide (TCO), wherein the TCO comprises a N-type conductive material comprising indium tin oxide (ITO), cadmium tin oxide (CTO), ZnO:Al , ZnO:In , ZnO:Ga , ZnGa_2O_4 , $\text{SnO}_2\text{:Sb}$, $\text{Ga}_2\text{O}_3\text{:Sn}$, $\text{AgInO}_2\text{:Sn}$ and $\text{In}_2\text{O}_3\text{:Zn}$, or a P-type conductive material comprising CuAlO_2 , LaCuOS , NiO , CuGaO_2 and SrCu_2O_2 .

Claim 28 (original) The white light LED of claim 17, wherein the substrate is comprised aluminum oxide, sapphire, silicon carbide (SiC), zinc oxide (ZnO), silicon substrate, gallium phosphide (GaP) or gallium arsenide (GaAs).

Claim 29 (original) The white light LED of claim 17, wherein the light emitting layer comprises a doped III-V compound semiconductor quantum well structure.

Claim 30 (original) The white light LED of claim 29, wherein the quantum well structure comprises doped III-V compound semiconductor comprising $\text{Al}_a\text{In}_b\text{Ga}_{1-a-b}\text{N}/\text{Al}_x\text{In}_y\text{Ga}_{1-x-y}\text{N}$, wherein $a, b \geq 0$; $0 \leq a+b < 1$; $x, y \geq 0$; $0 \leq x+y < 1$; $x > c > a$.

Claim 31 (original) The white light LED of claim 17, wherein the cathode electrode comprises Cr/Au , $\text{Cr}/\text{Pt}/\text{Au}$, $\text{Cr}/\text{WSiN}/\text{Au}$, WSi_x/Au , $\text{Ti}/\text{Si}_x/\text{Au}$, Ti/Au , $\text{Ti}/\text{WSi}_x/\text{Au}$, $\text{Ti}/\text{Al}/\text{Cr}/\text{Au}$, $\text{Ti}/\text{Al}/\text{Co}/\text{Au}$, $\text{Cr}/\text{Al}/\text{Cr}/\text{Au}$, $\text{Cr}/\text{Al}/\text{Pt}/\text{Au}$, $\text{Cr}/\text{Al}/\text{Pd}/\text{Au}$, $\text{Cr}/\text{Al}/\text{Ti}/\text{Au}$, $\text{Cr}/\text{Al}/\text{Co}/\text{Au}$, $\text{Cr}/\text{Al}/\text{Ni}/\text{Au}$, $\text{Pd}/\text{Al}/\text{Ti}/\text{Au}$, $\text{Pd}/\text{Al}/\text{Pt}/\text{Au}$, $\text{Pd}/\text{Al}/\text{Ni}/\text{Au}$, $\text{Pd}/\text{Al}/\text{Pd}/\text{Au}$, $\text{Pd}/\text{Al}/\text{Cr}/\text{Au}$, $\text{Pd}/\text{Al}/\text{Co}/\text{Au}$,

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Nd/Al/Pt/Au, Nd/Al/Ti/Au, Nd/Al/Ni/Au, Nd/Al/Cr/Au Nd/Al/Co/A, Hf/Al/Ti/Au, Hf/Al/Pt/Au,
Hf/Al/Ni/Au, Hf/Al/Pd/Au, Hf/Al/Cr/Au, Hf/Al/Co/Au, Zr/Al/Ti/Au, Zr/Al/Pt/Au, Zr/Al/Ni/Au,
Zr/Al/Pd/Au, Zr/Al/Cr/Au, Zr/Al/Co/Au, TiNx/Ti/Au, TiNx/Pt/Au, TiNx/Ni/Au, TiNx/Pd/Au,
TiNx/Cr/Au, TiNx/Co/Au TiWNx/Ti/Au, TiWNx/Pt/Au, TiWNx/Ni/Au, TiWNx/Pd/Au,
TiWNx/Cr/Au, TiWNx/Co/Au, NiAl/Pt/Au, NiAl/Cr/Au, NiAl/Ni/Au, NiAl/Ti/Au,
Ti/NiAl/Pt/Au, Ti/NiAl/Ti/Au, Ti/NiAl/Ni/Au or Ti/NiAl/Cr/Au.